SIEMENS

en Operating instructions QAX850 / RRV851

QAX850 is a master room unit for the RRV851 standard control system. This system allows you to control your heating and / or cooling and to set your ideal temperature conditions. The system provides Comfort, Energy Saving and Auto Timer mode with a 7-day programmable schedule. Factory settings are already set however you can adjust these to suit your personal needs.

⏻	System Off
☼	Comfort mode: System operates to maintain comfortable room temperature
☾	Energy saving mode: System operates only when actual temperature reaches energy saving setpoints
AUTO	Auto timer mode: System will switch from comfort mode to energy saving according to program settings
≋	Heating
☼	Cooling
A1.. A8	Time program
AUTO	Auto fan speed
⁂	Low / Medium / High fan speed
1 .. 7	Weekday indication

System On and Fan Speed control

⁂ / ⏻

- Press to turn system on or off and to select fan speeds - Low / Medium / High / Auto Fan and System Off. If your system is single speed fan only, then simply press to turn system on or off.
- When powering up, the QAX850 will display all LCD symbols. It will then revert to normal display. The time segments will be flashing if time needs to be set.
- The system off mode turns the whole system off and is indicated by a standby symbol ⏻. Some systems will include extreme high / low temperature protection activation during ⏻ – contact your supplier for further details.

Setting actual time and day

- Press button one time to set the time clock. (You will need to reset clock if there is a power loss of more than 20 minutes.)
- Press △ or ▽ button to set the current time and then press ↵ to confirm.
- If current time is 12-hour format and you wish to change to 24-hour format, press △ button passing 11:59PM or press ▽ button passing 12:00AM.
- If current time is 24-hour format and you wish to change to 12-hour format, press △ button passing 23:59 or press ▽ button passing 00:00.

Weekday

1 .. **7**

- Press button 2 times within 2 seconds. Day symbol flashes.
- Press △ or ▽ button to set the current weekday.
- Press ↵ to confirm. (**1** = Monday through **7** = Sunday).

Operation modes

Press button to cycle through Comfort ☼ or Energy Saving ☾ or Auto Timer AUTO mode.

Do you wish to change to Comfort mode?

Press button until display shows ☼ symbol. Room temperature is maintained according to Comfort setpoint and actual room temperature. A Heat ≋ or Cool ☼ symbol will be displayed to indicate the selected system mode.

Do you wish to change to Energy Saving mode?

Press button until display shows ☾ symbol. This is typically the mode for night time or unoccupied periods where you require internal temperature not to drift to an extreme level. A Heat ≋ or Cool ☼ symbol will be displayed to indicate the selected system mode.

Do you wish to change to Auto Timer mode?

Press button until display shows AUTO symbol. The system will automatically change over between Comfort and Energy Saving mode according to 8 pre-programmed timers.

Do you want to change the temperature setpoints of Comfort / Energy Saving mode?

- Press ☼/☾, the ☼ symbol and setpoint value is flashing indicating Comfort mode setpoint change expected.
- Press △ or ▽ button to change this setpoint in steps of 0.5°C.
- Press ↵ to confirm and continue to the Energy Saving ☾ mode heating setpoint.
- The ☾ and ♨ symbol and setpoint value is flashing indicating Energy Saving mode heating setpoint change is expected; press △ or ▽ button to change this setpoint in steps of 0.5°C. Press ↵ to confirm and continue to the Energy Saving mode Cooling setpoint.
- The ☾ and ☼ symbol and setpoint value is flashing indicating Energy Saving mode cooling setpoint change is expected, press △ or ▽ button to change this setpoint in steps of 0.5°C. Press ↵ to save the change.

Note: If no button is pressed after 5 seconds, setpoint setting changes will be saved and operational mode will resume.

During Comfort mode operation are you *too warm / too cold?*

You can temporarily adjust the temperature setpoint when in Comfort ☼ mode. Press △ or ▽ button to adjust the temperature setpoint. You can increase or decrease the room temperature setpoint in steps of 0.5°C. The maximum range is from 5°C to 35°C, however it is recommended to not exceed 18°C to 26°C range. Setpoints will revert back to permanent setpoint settings after any mode change.

This button is not used.

Do you want to view and set the Programmable Timer setting?

- Press AUTO button once to sequentially review the 8 auto timers.
- To adjust the time schedule, hold for 3 seconds to go into Programmable Timer Setting mode.
- Auto timer 1 shows, A1 and ☼ AUTO symbol displays with time xx:xx flashing to indicate timer setting change is expected for the Comfort mode.
- Press △ or ▽ buttons to adjust the Comfort mode start time.
- Press button to set the days applicable to the timer. The 1 symbol will flash. Press △ or ▽ button to select or deselect each day and advance to the next day.
- Press ↵ to save the changes for the Comfort mode start time and advance to set the Energy Saving mode start time.
- The ☾ and AUTO symbol displays with the time xx:xx flashing. Press △ or ▽ button to adjust the time. Only the time can be adjusted. Day will follow Comfort mode setting.
- To cancel the timer, press ESC button until time schedule changes to --:--.
- Press ↵ to save the Energy Saving mode changes and advance to Auto timer 2.
- Repeat the procedure for setting Timer A1 and advance to next timer.
- System will return to normal operational mode if no button is pressed within 20 seconds. All modifications made after last Time Schedule and ↵ button pressed will not be saved.

What is the green LED for?

The green LED indicates when heating or cooling energy is activated.

Do you want just heating?

Press button until display shows ♨ symbol only. The system is restricted to heat. The ♨ symbol will not appear if your air conditioning equipment provides cooling only.

Do you want just cooling?

Press button until display shows ☼ symbol only. The system is restricted to cool. The ☼ symbol will not appear if your air conditioning equipment provides heating only.

Do you want auto-changeover of heat / cool?

Press button until display shows both ☼ and ♨ symbols. This indicates the system will activate heating or cooling in order to maintain desired temperature setpoint. This applies to heating / cooling air conditioning equipment only.

Do you want ventilation fan only?

Press button until the ☼ and ♨ symbols are not displayed. No heating or cooling will be provided - only ventilation.

Energy saving tips without sacrificing comfort

Never allow room temperatures to exceed 21°C when heating or fall below 22°C when cooling.

Select Energy Saving mode even when you are absent for short periods of time and select System Off mode when absent for extended periods.

Although auto-changeover of heat / cool is possible, it is recommended you select cool mode only in summer and heat mode only in winter.

Note: This document provides user instructions only. For more detailed technician information please refer to **RRV851** installation / commissioning guide.

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